



- Sealed to IP66 IP68 and IP69K when mated
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- Simplex LC-Type Interface
- Cabled Versions: 0S1, 0M1, 0M3
- Cable range from 5 to 450m
- Diameter over coupling ring 19.7mm
- Flex, Inline and Rear Panel
- Colour coded O-rings & washers for easy identification purposes
- Secure, proven locking system
- Flame Retardant moulding material - Polyamide UL94-V0
- Tamper proof construction
- Sealing caps available to maintain IP68 rating
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

CIRCULAR FIBER CONNECTORS

4000 Series - Simplex LC Fiber Buccaneer

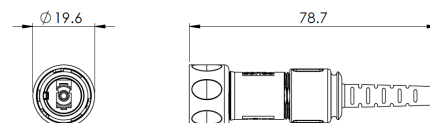


Flex to LC Fiber Cable



PXF4050XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- OS1, OM1 or OM3 cable options
- Termination options

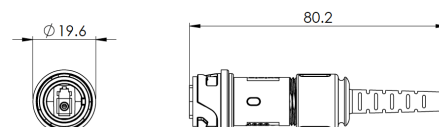


Inline to LC Fiber Cable



PXF4051XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- OS1, OM1 or OM3 cable options
- Termination options

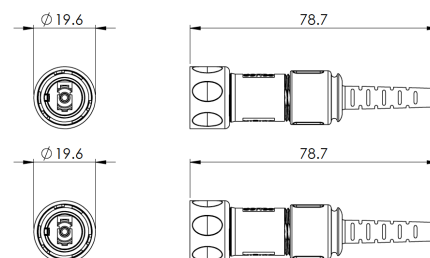


Flex to Flex Fiber Cable



PXF4054XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- OS1, OM1 or OM3 cable options
- Termination options

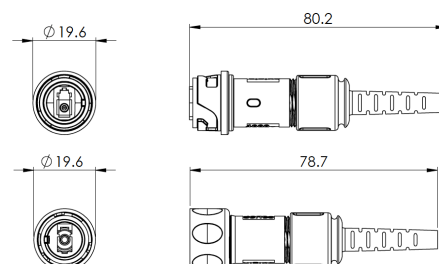


Flex to Inline Fiber Cable



PXF4055XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- OS1, OM1 or OM3 cable options
- Termination options

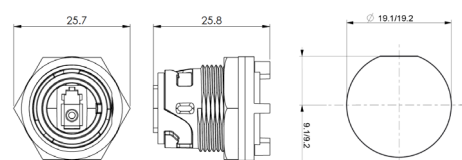


Rear Panel Mounting Connector



PXF4053XXX

- LC fiber adapter
- Leaded with LC connector
- Socket variant mates with PXF4050 type cables



Part no.

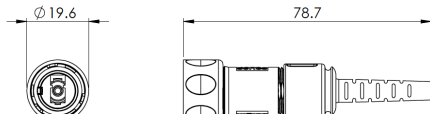
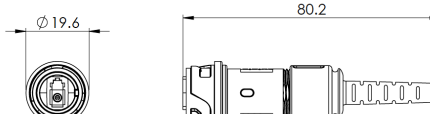
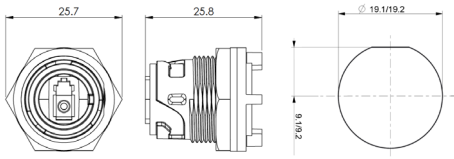
Description

PXF4053 IP-Sealed LC Type, Rear Panel Mounted, LC Connector at Rear.

CIRCULAR FIBER CONNECTORS

4000 Series - Simplex LC Fiber Buccaneer



Flex Cable Connector  PXF4050	Mates with Inline or Panel mounting versions PXF4051, PXF4053 30° turn locking ring Supplied without LC Connector													
Inline Cable Connector  PXF4051	Mates with Flex Cable connector PXF4050 For Inline connection Supplied without LC Connector													
Rear Panel Mounting Connector  PXF4053	Mates with Flex Cable connector PXF4050 Rear Panel Mounting Single hole fixing Supplied without LC Connector													
Sealing Caps 	Sealing caps to maintain IP rating when connectors are not in use	<table><tr><th>Part no.</th><th>Description</th></tr><tr><td>PXP4081</td><td>Sealing cap for use with PXF4050's</td></tr><tr><td>PXP4082</td><td>Sealing cap for use with PXF4051</td></tr><tr><td>PXP4083</td><td>Sealing cap for use with PXF4053's</td></tr></table>	Part no.	Description	PXP4081	Sealing cap for use with PXF4050's	PXP4082	Sealing cap for use with PXF4051	PXP4083	Sealing cap for use with PXF4053's				
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O-ring & washer pack 	<table><tr><th>Part no.</th><th>Description</th></tr><tr><td>PXP4089/YL</td><td>Yellow coloured O-ring and washer pack</td></tr><tr><td>PXP4089/BL</td><td>Blue coloured O-ring and washer pack</td></tr><tr><td>PXP4089/RD</td><td>Red coloured O-ring and washer pack</td></tr><tr><td>PXP4089/WH</td><td>White coloured O-ring and washer pack</td></tr><tr><td>PXP4089/GN</td><td>Green coloured O-ring and washer pack</td></tr></table>	Part no.	Description	PXP4089/YL	Yellow coloured O-ring and washer pack	PXP4089/BL	Blue coloured O-ring and washer pack	PXP4089/RD	Red coloured O-ring and washer pack	PXP4089/WH	White coloured O-ring and washer pack	PXP4089/GN	Green coloured O-ring and washer pack	
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Cables & connectors

Mechanical

Sealing:	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013 1.0-1.1Nm (91lb.in)
Panel Mount Nut:	1.0-1.1Nm (91lb.in)
Operating temperature:	-25°C to +70°C
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Optical

IEC 61753-1:	
Max Insertion Loss:	0.2db } single mode
AVG Insertion Loss:	0.1db } single mode

Material:

Body Mouldings:	Polyamide
Flammability Rating:	UL94v-0
UV Resistance:	To EN 500021:1999

O Rings:	Silicone
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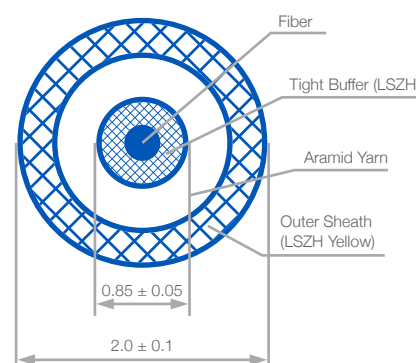
Panel Sealing O Ring:	Silicone
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RoHS Compliant

Fiber Specification - SECTION OSI

Item	Detail	Specification
Fiber type:	/	G.657A2 (OS1)
Wavelength		1310nm
Mode field diameter:	Range of nominal values	8.6µm-9.5µm±0.4µm
Cladding diameter:	Dimension	125.0µm±0.7µm
Core concentricity error:		≤0.5µm
Cladding non-circularity:		≤1%
Coating diameter:	Dimension	245µm±10µm
Coating-cladding concentricity error:		≤12.5µm
Cut-off wavelength:		≤1260nm
Uncabled fiber macrobending loss:	Radius(mm) Number of turns Max. at 1550nm(dB) Max. at 1625nm(dB)	15 10 7.5 10 1 1 0.03 0.1 0.5 0.1 0.2 1.0
Min. proof stress:		0.69GPa
Dynamic fatigue parameter:		≥20
Chromatic dispersion coefficient:	λ0min λ0max S0max	1300nm 1324nm 0.092ps/nm2×km
Other parameters meet standard:	ITU-T G.657	

Cable Construction (in mm):



Optical Cable Specification

Structure Parameter

Tight buffer:	Material	LSZH (Low-Smoke Zero-Halogen)
	Outer diameter	0.85mm±0.05mm
Strength member:	Material	Aramid yarn
Outer sheath:	Sheath material	LSZH (Low-Smoke Zero-Halogen)
	Sheath color	Yellow(Pantone 136C) Chromatic aberration E: ≤4.0
	Min. sheath thickness	0.3mm
	Dimension	2.0mm±0.1mm

Transmission Performance

Attenuation coefficient:	Wavelength 1310nm~1625nm Maximum at 1383nm ±3nm Wavelength 1550nm	≤0.4dB/km ≤0.4dB/km ≤0.3dB/km
Macrobending loss	Radius(mm) Number of turns Max. at 1550nm(dB) Max. at 1625nm(dB)	15 10 7.5 10 1 1 0.03 0.1 0.5 0.1 0.2 1.0

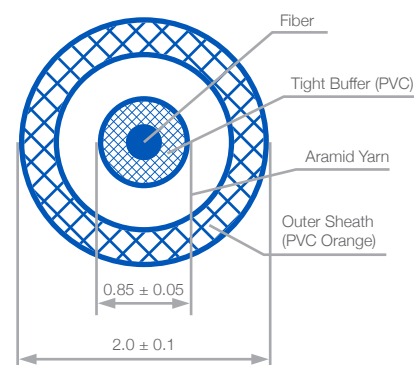
Other performances

Min. bending radius of work	10mm
Other parameter meet standard	IEC60794-2-50, YD/T1258.2, ITU-T G.657

Fiber Specification - SECTION OMI

Item	Detail	Specification
Fiber type:	/	62.5/125(A1b) (OM1)
Core diameter:	Dimension	62.5 μ m $\pm$ 3 μ m
Cladding diameter:	Dimension	125.0 μ m $\pm$ 2 μ m
Core-cladding concentricity error:		$\leq$ 3 μ m
Cladding non-circularity:		$\leq$ 2%
Core non-circularity:		$\leq$ 6%
Primary coating diameter (uncoloured):	Dimension	245 μ m $\pm$ 10 μ m
Primary coating-cladding : concentricity error:	Radius(mm)	$\leq$ 12.5 μ m 37.5
Uncabled fiber macrobending loss:	Number of turns At wavelengths 850nm & 1310nm	100 0.5(dB)
Min. proof stress:		0.69GPa
Dynamic fatigue parameter:		$\geq$ 20
Minimum modal bandwidth- length:	Wavelength 850nm	200MHzkm
Product for overfilled launch:	Wavelength 1310nm	500MHzkm
Other parameters meet standard:	IEC 60793-2-10	

Cable Construction (in mm):

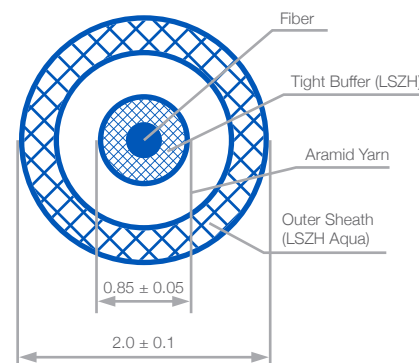


Optical Cable Specification

Item	Specification
Structure Parameter	
Tight buffer:	Material: PVC Outer diameter: 0.85mm $\pm$ 0.05mm
Strength member:	Material: Aramid yarn
Outer sheath:	Sheath material: PVC Sheath color: Orange(Pantone 164C) Chromatic aberration E: $\leq$ 4.0 Min. sheath thickness: 0.3mm Dimension: 2.0mm $\pm$ 0.1mm
Transmission Performance	
Attenuation coefficient	Wavelength 850m: $\leq$ 3.5dB/km Wavelength 1300nm: $\leq$ 1.5dB/km
Other performances	
Min. bending radius of work	30mm
Other parameter meet standard	IEC60794-2-50, YD/T1258.2

Fiber Specification - SECTION OM3

Item	Detail	Specification
Fiber type:	/	50/125(OM3)
Core diameter:	Dimension	50 μ m $\pm$ 2.5 μ m
Cladding diameter:	Dimension	125.0 μ m $\pm$ 2 μ m
Core-cladding concentricity error:		$\leq$ 3 μ m
Cladding non-circularity:		$\leq$ 2%
Core non-circularity:		$\leq$ 6%
Primary coating diameter (uncoloured):	Dimension	245 μ m $\pm$ 10 μ m
Primary coating-cladding concentricity error		$\leq$ 12.5 μ m
Uncabled fiber macrobending loss	Radius(mm)	15 7.5
	Number of turns	2 2
	Max. at 850nm(dB)	0.1 0.2
	Max. at 1310nm(dB)	0.3 0.5
Min. mode bandwidth:	Overfilled launch bandwidth at 850nm	1500MHz.km
	Overfilled launch bandwidth at 1310nm	500MHz.km
	Effective laser launch bandwidth at 850nm	2000MHz.km
Min. proof stress:		0.69GPa
Dynamic fatigue parameter:		$\leq$ 20
	λ 0min	1295nm
	λ 0max	1340nm
Chromatic dispersion coefficient:	S0max(from1295nm $\leq\lambda$ 0 $\leq$ 1310nm)	0.105ps/nm ² ×km
	S0max(from1310nm $\leq\lambda$ 0 $\leq$ 1340nm)	0.000375(1590- λ_0)
		ps/nm ² ×km
Other parameters meet standard:	IEC 60793-2-10	



Optical Cable Specification

Item	Specification
Structure Parameter	
Tight buffer:	Material: LSZH Outer diameter: 0.85mm $\pm$ 0.05mm
Strength member:	Material: Aramid yarn
Outer sheath:	Sheath material: LSZH Sheath color: Aqua(Pantone 3248C) Chromatic aberration E: $\leq$ 4.0 Min. sheath thickness: 0.3mm Dimension: 2.0mm $\pm$ 0.1mm
Transmission Performance	
Attenuation coefficient:	Wavelength 850nm: $\leq$ 3.5dB/km Wavelength 1300nm: $\leq$ 1.5dB/km
Macrobending loss:	Radius (mm): 15 7.5 Number of turns: 2 2 Max. at 850nm(dB): 0.1 0.2 Max. at 1310nm(dB): 0.3 0.5
Other performances	
Min. bending radius of work:	10mm
Other parameter meet standard:	IEC60794-2-50, YD/T1258.2



PXF405 x	/	X	/	XX
Body Styles		Cable Type		Cable Length (m)
PXF4050 PXF4051 PXF4053 PXF4054 PXF4055		Blank = No cable A = OS1 (Singlemode) B = OM1 (Multimode) C = OM3 (Multimode)		Blank = No Cable AA = 1 (1m on Chassis Version Only PXF4053) AA = 5 AB = 10 AC = 25 AD = 50 AE = 100 AF = 150 AG = 200 AH = 300 AJ = 450

Examples:

PXF4050 = Flex Connector, No Cable
PXF4050AAA = Flex Connector, OS1 Single Mode Cable, 5 Metre Length to LC Type Connector
PXF4053BAA = Panel Mount Connector, OM1 Multi Mode Cable, 1 Metre Length to LC Type Connector